



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re application of:

Hartley *et al.*

Appl. No. 10/058,292

Filed: January 30, 2002

For: **Recombinational Cloning
Using Recombination Sites**

Confirmation No. 3058

Art Unit: 1636

Examiner: Sandals, W.O.

Atty. Docket: 0942.285000H/RWE/BJD/JKM

Second Supplemental Information Disclosure Statement

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Second Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' First Supplemental Information Disclosure Statement filed August 11, 2003, in connection with the above-captioned application. A copy of each document is also provided.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates

should not be construed as an admission that the information was actually published on the date indicated.

This Second Supplemental Information Disclosure Statement is being filed before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist.

Consideration of the cited documents and making the same of record in the prosecution of the above-identified application is respectfully requested. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Brian J. Del Buono
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Date: Aug. 19, 2003

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FORM PTO-1449

**SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**ATTY. DOCKET NO.
0942.285000H/RWE/BJD/JKMAPPLICATION NO.
10/058,292APPLICANT
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RECEIVED
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TECH CENTER 1601/2900**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA5	4,626,505	12/02/1986	Falco			02/24/1984
	AB5	4,683,195	07/28/1987	Mullis et al.			02/07/1986
	AC5	4,683,202	07/28/1987	Mullis			10/25/1985
	AD5	4,965,188	10/23/1990	Mullis et al.			06/17/1987
	AE5	5,093,257	03/03/1992	Gray			11/01/1989
	AF5	5,102,797	04/07/1992	Tucker et al.			05/26/1989
	AG5	5,334,375	08/02/1994	Nabi et al.			07/16/1992
	AH5	5,334,575	08/02/1994	Noonan et al.			12/17/1992
	AI5	5,348,886	09/20/1994	Lee et al.			09/04/1992
	AJ5	5,378,618	01/03/1995	Sternberg et al.			09/29/1992
	AK5	5,605,793	02/25/1997	Stemmer			02/17/1994

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN5	EP 0 220 009	04/29/1987	Europe ✓			Yes No
	AO5	WO 90/11375	10/04/1990	WIPO			Yes No
	AP5	EP 0 427 074	05/15/1991	Europe			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
	AS	73	Akagi, K., et al., "Cre-mediated somatic site-specific recombination in mice," <i>Nucl. Acids Res.</i> 25:1781-1788, Oxford University Press (1997). ✓
	AT	73	Aladjem, M.I., et al., "Positive Selection of FLP-Mediated Unequal Sister Chromatid Exchange Products in Mammalian Cells," <i>Mol. Cell. Biol.</i> 17:857-861, American Society for Microbiology (1997).

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	APPLICANT Hartley et al.	
	FILING DATE January 30, 2002	GROUP 1636

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA6	5,650,557	07/22/1997	Hannah et al.			06/07/1995
	AB6	5,728,551	03/17/1998	Devine et al.			03/02/1995
	AC6	5,801,030	09/01/1998	McVey et al.			09/01/1995
	AD6	5,814,300	09/29/1998	Scott et al.			03/03/1995
	AE6	5,837,458	11/17/1998	Minshull et al.			05/20/1996
	AF6	5,929,307	07/27/1999	Hodges et al.			12/20/1996
	AG6	5,962,255	10/05/1999	Griffiths et al.			12/05/1994
	AH6	6,080,576	06/27/2000	Zambrowicz et al.			04/08/1998
	AI6	6,262,341 B1	07/17/2001	Baszczynski et al.			11/17/1998
	AJ6	6,271,436 B1	08/07/2001	Piedrahita et al.			10/10/1997
	AK6	6,361,972 B1	03/26/2002	Harrington et al.			01/10/2000

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL6	WO 91/09957	07/11/1991	WIPO			Yes No
	AM6	WO 92/15694	09/17/1992	WIPO			Yes No
	AN6	WO 92/22650	12/23/1992	WIPO			Yes No
	AO6	WO 94/03624	02/17/1994	WIPO			Yes No
	AP6	WO 94/18333	08/18/1994	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	74	Angelastro, J.M., et al., "Identification of diverse nerve growth factor-regulated genes by serial analysis of gene expression (SAGE) profiling," <i>Proc. Natl. Acad. Sci. USA</i> 97:10424-10429, National Academy of Sciences (2000).	
AS	74	Angrand, P.-O., et al., "Inducible expression based on regulated recombination: a single vector strategy for stable expression in cultured cells," <i>Nucl. Acids Res.</i> 26:3263-3269, Oxford University Press (1998).	
AT	74	Ayres, E.K., et al., "Precise Deletions in Large Bacterial Genomes by Vector-mediated Excision (VEX). The <i>trfA</i> Gene of Promiscuous Plasmid RK2 is Essential for Replication in Several Gram-negative Hosts," <i>J. Mol. Biol.</i> 230:174-185, Academic Press (1993).	

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	AA7	6,365,377 B1	04/02/2002	Patten et al.			03/03/2000
	AB7	2002/0068290 A1	06/06/2002	Yarovinsky			05/31/2001
	AC7	6,410,266 B1	06/25/2002	Harrington et al.			01/07/2000
	AD7	6,410,317 B1	06/25/2002	Farmer			07/14/2000
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	AL7	WO 96/04393	02/15/1996	WIPO			Yes No
	AM7	WO 96/30498	10/03/1996	WIPO			Yes No
	AN7	WO 96/40722	12/19/1996	WIPO			Yes No
	AO7	WO 96/40724	12/19/1996	WIPO			Yes No
	AP7	WO 99/55851	11/04/1999	WIPO			Yes No

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	AR	75	Backman, K., et al., "Use of Synchronous Site-Specific Recombination In Vivo to Regulate Gene Expression," <i>Bio/Technology</i> 2:1045-1049, Nature Publishing Company (1984).
	AS	75	Bai, C., et al., "SKP1 Connects Cell Cycle Regulators to the Ubiquitin Proteolysis Machinery through a Novel Motif, the F-Box," <i>Cell</i> 86:263-274, Cell Press (1996).
	AT	75	Barnes, G., and Rine, J., "Regulated expression of endonuclease EcoRI in <i>Saccharomyces cerevisiae</i> : Nuclear entry and biological consequences," <i>Proc. Natl. Acad. Sci. USA</i> 82:1354-1358, National Academy of Sciences (1985).

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	AL8	WO 00/60091	10/12/2000	WIPO			Yes No
	AM8	WO 01/05961	01/25/2001	WIPO			Yes No
	AN8	WO 01/07572	02/01/2001	WIPO			Yes No
	AO8	WO 01/11058	02/15/2001	WIPO			Yes No
	AP8	WO 01/62892	08/30/2001	WIPO			Yes No

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AR	76	Bernard, P., "Positive Selection of Recombinant DNA by CcdB," <i>BioTechniques</i> 21:320-323, Eaton Publishing Company (1996).
AS	76	Bernard, P., et al., "The F Plasmid CcdB Protein Induces Efficient ATP-dependent DNA Cleavage by Gyrase," <i>J. Mol. Biol.</i> 234:534-541, Academic Press (1993).
AT	76	Brent, R., and Ptashne, M., "A bacterial repressor protein or a yeast transcriptional terminator can block upstream activation of a yeast gene," <i>Nature</i> 312:612-615, Macmillan Journals Ltd. (1984).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL9	WO 02/05294	01/17/2002	WIPO			Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	77	Boshart, M., et al., "A Very Strong Enhancer is Located Upstream of an Immediate Early Gene of Human Cytomegalovirus," Cell 41:521-530, The MIT Press (1985).
AS	77	Bouhassira, E.E., et al., "Transcriptional Behavior of LCR Enhancer Elements Integrated at the Same Chromosomal Locus by Recombinase-Mediated Cassette Exchange," Blood 90:3332-3344, The American Society of Hematology (1997).
AT	77	Burioni, R., et al., "An improved phage display vector for antibody repertoire cloning by construction of combinatorial libraries," Res. Virol. 148:161-164, Elsevier (1997).

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	78	Capone, J.P., et al., "Introduction of UAG, UAA, and UGA Nonsense Mutations at a Specific Site in the <i>Escherichia coli</i> Chloramphenicol Acetyltransferase Gene: Use in Measurement of Amber, Ochre, and Opal Suppression in Mammalian Cells," <i>Mol. Cell. Biol.</i> 6:3059-3067, American Society for Microbiology (1986).
	AS	78	Chanock, R.M., et al., "Human Monoclonal Antibody Fab Fragments Cloned from Combinatorial Libraries: Potential Usefulness in Prevention and/or Treatment of Major Human Viral Diseases," <i>Infect. Agents Dis.</i> 2:118-131, Raven Press (1993).
	AT	78	Chong, S., et al., "Single-column purification of free recombinant proteins using a self-cleavable affinity tag derived from a protein splicing element," <i>Gene</i> 192:271-281, Elsevier Science B.V. (1997).

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	79	Chouluka, A., et al. "Transfer of Single Gene-Containing Long Terminal Repeats into the Genome of Mammalian Cells by a Retroviral Vector Carrying the cre Gene and the loxP Site." <i>J. Virol.</i> 70:1792-1798, American Society for Microbiology (1996).
	AS	79	Chuang, C.-F., and Meyerowitz, E.M., "Specific and heritable genetic interference by double-stranded RNA in <i>Arabidopsis thaliana</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 97:4985-4990, National Academy of Sciences (2000).
	AT	79	Cormack, B., "Directed Mutagenesis Using the Polymerase Chain Reaction," in <i>Current Protocols in Molecular Biology</i> , Ausubel, F.M., et al., eds., John Wiley & Sons, Inc., New York, NY, pp. 8.5.1-8.5.10 (1997).

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	80	Cigan, A.M., et al., "Mutational Analysis of the <i>HIS4</i> Translational Initiator Region in <i>Saccharomyces cerevisiae</i> ," <i>Mol. Cell. Biol.</i> 8:2964-2975, American Society for Microbiology (1998).
	AS	80	Curcio, M.J., and Garfinkel, D.J., "Single-step selection for Tyl element retrotransposition," <i>Proc. Natl. Acad. Sci. USA</i> 88:936-940, National Academy of Sciences (1991).
	AT	80	Datson, N.A., et al., "MicroSAGE: a modified procedure for serial analysis of gene expression in limited amounts of tissue," <i>Nucl. Acids Res.</i> 27:1300-1307, Oxford University Press (1999).

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	APPLICANT Hartley et al.	
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AL						Yes No
	AM						Yes No
	AN						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	81	Davis, C.R., et al., "Analysis of the Mechanisms of Action of the <i>Saccharomyces cerevisiae</i> Dominant Lethal <i>cdc42</i> ^{G12V} and Dominant Negative <i>cdc42</i> ^{D118A} Mutations," <i>J. Biol. Chem.</i> 273:849-858, The American Society for Biochemistry and Molecular Biology (1998).	
AS	81	Deng, M.-D., and Coleman, J.R., "Ethanol Synthesis by Genetic Engineering in <i>Cyanobacteria</i> ," <i>Appl. Environ. Microbiol.</i> 65:523-528, American Society for Microbiology (1999).	
AT	81	Derbyshire, V., and Belfort, M., "Lightning strikes twice: Intron-intein coincidence," <i>Proc. Natl. Acad. Sci. USA</i> 95:1356-1357, National Academy of Sciences (1998).	

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	AL						Yes No
	AM						Yes No
	AN						Yes No
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	AR	82	Dijkema, R., et al., "Cloning and expression of the chromosomal immune interferon gene of the rat." <i>EMBO J.</i> 4:761-767, IRL Press Limited (1985).
	AS	82	Enquist, L.W., and Weisberg, R.A., "The Red Plaque Test: A Rapid Method for Identification of Excision Defective Variants of Bacteriophage Lambda," <i>Virology</i> 72: 147-153, Academic Press (1976).
	AT	82	Esposito, D., and Scocca, J.J., "The integrase family of tyrosine recombinases: evolution of a conserved active site domain," <i>Nucl. Acids Res.</i> 25:3605-3614, Oxford University Press (1997).

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AR	83	Feinbaum, R., "Vectors Derived from Plasmids," in <i>Current Protocols in Molecular Biology</i> , Ausubel, F. M., et al., eds., John Wiley & Sons, Inc., New York, NY, pp.1.5.1-1.5.17 (1998).
AS	83	Flanagan, P.M., and Fennewald, M.A., "Analysis of Inhibitors of the Site-specific Recombination Reaction Mediated by TN3 Resolvase," <i>J. Mol. Biol.</i> 206:295-304, Academic Press (1989).
AT	83	Flores, A., et al., "A protein-protein interaction map of yeast RNA polymerase III," <i>Proc. Natl. Acad. Sci. USA</i> 96:7815-7820, National Academy of Sciences (1999).

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	AL						Yes No
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	AR	84	Francia, M.V., et al., "The IntI1 Integron Preferentially Binds Single-Stranded DNA of the attC Site," <i>J. Bacteriol.</i> 181:6844-6849, American Society for Microbiology (1999).
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SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.285000H/RWE/BJD/JKM

APPLICATION
10/058,292

APPLICANT
Hartley et al.

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AR	85	Gay, P., et al., "Cloning Structural Gene <i>sacB</i> , Which Codes for Exoenzyme Levansucrase of <i>Bacillus Subtilis</i> : Expression of the Gene in <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 153:1424-1431, American Society for Microbiology (1983).
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AR	86	Gronostajski, R.M., and Sadowski, P.D., "The FLP Protein of the 2-micron Plasmid of Yeast. Inter- and Intramolecular Reactions," <i>J. Biol. Chem.</i> 260:12328-12335, The American Society of Biological Chemists (1985).
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AR	87	Hehl, R., et al., "Structural analysis of Tam3, a transposable element from <i>Antirrhinum majus</i> , reveals homologies to the Ac element from maize," <i>Plant Molec. Biol.</i> 16:369-371, Kluwer Academic Publishers (1991).
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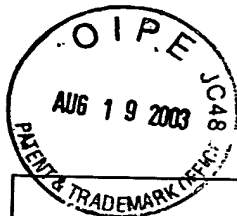
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	AR	88	Hoess, R.H., and Abremski, K., "Interaction of the bacteriophage P1 recombinase Cre with the recombining site loxP," <i>Proc. Natl. Acad. Sci. USA</i> 81:1026-1029, National Academy of Sciences (1984).
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	AR	<u>89</u>	Johnson, R.C., et al., "Isolation of the gene encoding the Hin recombinational enhancer binding protein," <i>Proc. Natl. Acad. Sci. USA</i> 85:3484-3488, National Academy of Sciences (1998).
	AS	<u>89</u>	Kaniga, K., et al., "A wide-host-range suicide vector for improving reverse genetics in Gram-negative bacteria: inactivation of the <i>blaA</i> gene of <i>Yersinia enterocolitica</i> ," <i>Gene</i> 109:137-141, Elsevier Science B.V. (1991).
	AT	<u>89</u>	Kealey, J.T., et al., "Production of polyketide natural product in nonpolyketide-producing prokaryotic and eukaryotic hosts," <i>Proc. Natl. Acad. Sci. USA</i> 95:505-509, National Academy of Sciences (1998).

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	AR	90	Kholodenko, B.N., et al., "Metabolic Design: How to Engineer a Living Cell to Desired Metabolite Concentrations and Fluxes," <i>Biotechnol. Bioengineer.</i> 59:239-247, John Wiley & Son (1998).
	AS	90	Kim, D.W., "Use of the human elongation factor 1a promoter as a versatile and efficient expression system," <i>Gene</i> 91:217-223, Elsevier Science B.V. (1990).
	AT	90	Klippel, A., et al., "Isolation and characterization of unusual <i>gin</i> mutants," <i>EMBO J.</i> 7:3983-3989, IRL Press Limited (1988).

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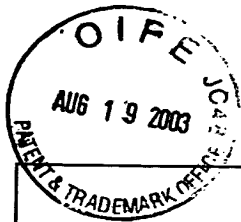
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AR	91	Koch, C., et al., "Escherichia coli host factor for site-specific DNA inversion: Cloning and characterization of the <i>fis</i> gene," <i>Proc. Natl. Acad. Sci. USA</i> 85:4237-4241, National Academy of Sciences (1988).
AS	91	Kolb, A.F., and Siddell, S.G., "Genomic targeting with an MBP-Cre fusion protein," <i>Gene</i> 183:53-60, Elsevier Science B.V. (1996).
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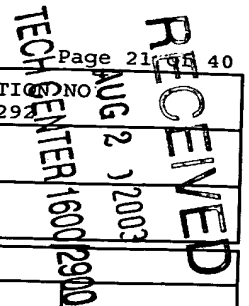
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AR	92	Kozak, M., "Comparison of Initiation of Protein Synthesis in Procaryotes, Eucaryotes, and Organelles," <i>Microbiol. Rev.</i> 47:1-45, American Society for Microbiology (1983).
AS	92	Krautwald, S. and Baccarini, M. "Bacterially Expressed Murine CSF-1 Possesses Agonistic Activity in its Monomeric Form." <i>Biochem. Biophys. Res. Commun.</i> 192: 720-727, Academic Press (1993).
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	AR	<u>93</u>	Leslie, N.R., and Sherratt, D.H., "Site-specific recombination in the replication terminus region of <i>Escherichia coli</i> : functional replacement of <i>dif</i> ," <i>EMBO J.</i> 14:1561-1570, Oxford University Press (April 1995).
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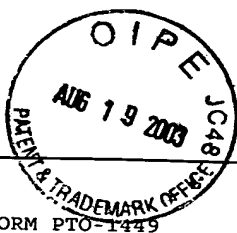
	AR	<u>94</u>	Lu, F., and Churchward, G., "Conjugative Transposition" Tn916 integrase contains two independent DNA binding domains that recognize different DNA sequences," <i>EMBO J.</i> 13:1541-1548, Oxford University Press (April 1994).
	AS	<u>94</u>	Madison, L.L., and Huisman, G.W., "Metabolic Engineering of Poly(3-Hydroxyalkanoates): From DNA to Plastic," <i>Microbiol. Mol. Biol. Reviews</i> 63:21-53, American Society for Microbiology (1999).
	AT	<u>94</u>	Maemura, K., et al., "Generation of a Dominant-negative Mutant of Endothelial PAS Domain Protein 1 by Deletion of a Potent C-terminal Transactivation Domain," <i>J. Biol. Chem.</i> 274:31565-31570, The American Society for Biochemistry and Molecular Biology (1999).

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AS	95	Malynn, B.A., et al., "The <i>scid</i> Defect Affects the Final Step of the Immunoglobulin VDJ Recombinase Mechanism," <i>Cell</i> 54:453-460, Cell Press (1988).	
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	AL						Yes No
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	97	Mette, M.F., et al., "Transcriptional silencing and promoter methylation triggered by double-stranded RNA," <i>EMBO J.</i> 19:5194-5201, Oxford University Press (2000).
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FORM PTO-1449
SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
0942.285000H/RWE/BJD/JKMAPPLICATION NO.
10/058,292APPLICANT
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	98	Mizushima, S., and Nagat, S., "pEF-BOS, a powerful mammalian expression vector," <i>Nucl. Acids Res.</i> 18:5322, Oxford University Press (1990).
	AS	98	Nagy, A., "Cre Recombinase: The Universal Reagent for Genome Tailoring," <i>Genesis</i> 26:99-109, Wiley-Liss (2000).
	AT	98	Nash, H.A., and Robertson, C.A., "Purification and Properties of the <i>Escherichia coli</i> Protein Factor Required for λ Integrative Recombination," <i>J. Biol. Chem.</i> 256:9246-9253, The American Society of Biological Chemists (1981).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	99	Odell, J.T., et al., "Seed-Specific Gene Activation Mediated by the Cre/lox Site-Specific Recombination System," <i>Plant Physiol.</i> 106:447-458, American Society of Plant Physiologists (October 1994).
	AS	99	O'Gara, J.P., et al., "Identification and Molecular Genetic Analysis of Multiple Loci Contributing to High-Level Tellurite Resistance in <i>Rhodobacter sphaeroides</i> 2.4.1," <i>Appl. Environ. Microbiol.</i> 63:4713-4720, American Society for Microbiology (1997).
	AT	99	Okayama, H., and Berg, P., "Bacteriophage Lambda Vector for Transducing a cDNA Clone Library into Mammalian Cells," <i>Mol. Cell. Biol.</i> 5:1136-1142, American Society for Microbiology (1985).

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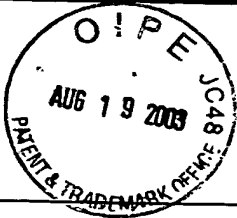
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AR	100	Osuna, R., et al., "Identification of two functional regions in Fis: the N-terminus is required to promote Hin-mediated DNA inversion by not λ excision," <i>EMBO J.</i> 10:1593-1603, Oxford University Press (1991).
AS	100	Pal, S. K., et al., "Pl Plasmid Replication. Role of Initiator Titration in Copy Number Control," <i>J. Mol. Biol.</i> 192:275-285, Academic Press (1986).
AT	100	Panke, S., et al., "Engineering of Quasi-Natural <i>Pseudomonas putida</i> Strains for Toluene Metabolism through an ortho-Cleavage Degradation Pathway," <i>Appl. Environ. Microbiol.</i> 64:748-751, American Society for Microbiology (1998).

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AR	<u>101</u>	Patel, P.H., and Loeb, L.A., "DNA polymerase active site is highly mutable: Evolutionary consequences," <i>Proc. Natl. Acad. Sci. USA</i> 97:5095-5100, National Academy of Sciences (2000).
AS	<u>101</u>	Perler, F.B., "InBase, the New England Biolabs Intein Database," <i>Nucl. Acids Res.</i> 27:346-347, Oxford University Press (1999).
AT	<u>101</u>	Persson, M.A.A., "Combinatorial Libraries," <i>Intern. Rev. Immunol.</i> 10:153-63, Harwood Academic Publishers GmbH (1993).

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FORM PTO-1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.285000H/RWE/BJD/JKM	APPLICATION NO. 10/058,292
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	FILING DATE January 30, 2002	GROUP 1636

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	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	102	Phillips-Jones, M.K., et al., "Context Effects on Misreading and Suppression at UAG Codons in Human Cells," <i>Mol. Cell. Biol.</i> 15:6593-6600, American Society for Microbiology (December 1995).	
AS	102	Powell, J., "Enhanced concatemer cloning-a modification to the SAGE (Serial Analysis of Gene Expression) technique," <i>Nucl. Acids Res.</i> 26:3445-3446, Oxford University Press (1998).	
AT	102	Prieto, M.A., et al., "Molecular Characterization of the 4-Hydroxyphenylacetate Catabolic Pathway of <i>Escherichia coli</i> W: Engineering a Mobile Aromatic Degradative Cluster," <i>J. Bacteriol.</i> 178:111-120, American Society for Microbiology (1996).	

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	<u>103</u>	Qin, M., et al., "Site-specific cleavage of chromosomes in vitro through Cre-lox recombination," Nucl. Acids Res. 23:1923-1927, Oxford University Press (June 1995).	
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AT	<u>103</u>	Ross, W., and Landy, A., "Patterns of λ Int Recognition in the Regions of Strand Exchange," Cell 33:261-272, The MIT Press (1983).	

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	APPLICANT Hartley et al.	
	FILING DATE January 30, 2002	GROUP 1636

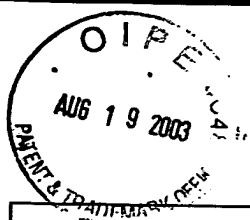
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	<u>104</u>	Sambrook, J., et al., <i>Molecular Cloning: A Laboratory Manual</i> , 2nd ed., Cold Spring Harbor Laboratory Press, New York, NY, pp. 16.6-16.8, (1989).	
AS	<u>104</u>	Sandhu, J.S., "Protein Engineering of Antibodies," <i>Crit. Rev. Biotechnol.</i> 12:437-462, CRC Press, Inc. (1992).	
AT	<u>104</u>	Sato, T., et al., "The <i>cisA</i> Cistron of <i>Bacillus subtilis</i> Sporulation Gene <i>spoIVC</i> Encodes a Protein Homologous to a Site-Specific Recombinase," <i>J. Bacteriol.</i> 172:1092-1098, American Society for Microbiology (1990).	

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FORM PTO-1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.285000H/RWE/BJD/JKM	APPLICATION NO. 10/058,292
	APPLICANT Hartley et al.	
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	105	Sauer, B., et al., "Construction of Isogenic Cell Lines Expressing Human and Rat Angiotensin II AT ₁ Receptors by Cre-Mediated Site-Specific Recombination," <i>Methods: A Companion to Methods in Enzymology</i> 4:143-149, Academic Press (1992).	
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	106	Schild, D., et al., "Cloning of three human multifunction <i>de novo</i> purine biosynthetic genes by functional complementation of yeast mutations," <i>Proc. Natl. Acad. Sci. USA</i> 87:2916-2920, National Academy of Sciences (1990).
	AS	106	Schnepf, E., et al., " <i>Bacillus thuringiensis</i> and Its Pesticidal Crystal Proteins," <i>Microbiol. Mol. Biol. Rev.</i> 62:775-806, American Society for Microbiology (1998).
	AT	106	Scott, S.D. and Marples, B., "Comment on the use of the <i>cre/loxP</i> recombinase system for gene therapy vectors," <i>Gene Therapy</i> 7:1706, Macmillan Publishers Ltd. (2000).

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	107	Segall, A. M., et al., "Architectural elements in nucleoprotein complexes: interchangeability of specific and non-specific DNA binding proteins," <i>EMBO J.</i> 13:4536-4548, Oxford University Press (October 1994).
	AS	107	Shim, J., et al., "Distinct and Redundant Functions of μ 1 Medium Chains of the AP-1 Clathrin-Associated Protein Complex in the Nematode <i>Caenorhabditis elegans</i> ," <i>Mol. Biol. Cell</i> 11:2743-2756, American Society for Biology (2000).
	AT	107	Skrally, F.A., et al., "Construction and Characterization of a 1,3-Propanediol Operon," <i>Appl. Environ. Microbiol.</i> 64:98-105, American Society for Microbiology (1998).

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	AR	<u>108</u>	Spinella, D.G., et al., "Tandem arrayed ligation of expressed sequence tags (TALEST): a new method for generating global gene expression profiles," Nucl. Acids Res. 27(e22):i-viii, Oxford University Press (1999).
	AS	<u>108</u>	Stark, W.M., et al., "Site-Specific Recombination by Tn3 Resolvase: Topological Changes in the Forward and Reverse Reactions," Cell 58:779-790, Cell Press (1989).
	AT	<u>108</u>	Stassi, D.L., et al., "Ethyl-substituted erythromycin derivatives produced by directed metabolic engineering," Proc. Natl. Acad. Sci. USA 95:7305-7309, National Academy of Sciences of the USA (1998).

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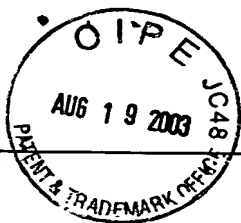
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	AR	109	Stellwagen, A.E., and Craig, N.L., "Mobile DNA elements: controlling transposition with ATP-dependent molecular switches," <i>Trends Biochem. Sci.</i> 23:486-490, Elsevier Science (1998).
	AS	109	Stenzel, T.T., et al., "The Integration Host Factor of <i>Escherichia coli</i> Binds to Bent DNA at the Origin of Replication of the Plasmid pSC101," <i>Cell</i> 49:709-717, Cell Press (1987).
	AT	109	Stryer, L., "The DNA Template Contains Stop Signals for transcription," in <i>Biochemistry</i> , 2nd ed., W.H. Freeman and Co., New York, NY, p. 610 (1981).

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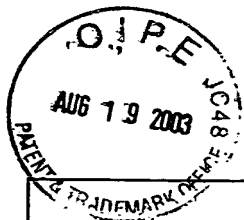
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	110	Sugiura, S., et al., "Minimal Essential Origin of Plasmid pSC101 Replication: Requirement of a Region Downstream of Iterons," <i>J. Bacteriol.</i> 175:5993-6001, American Society for Microbiology (1993).
	AS	110	Uetsuki, T., et al., "Isolation and Characterization of the Human Chromosomal Gene for Polypeptide Chain Elongation Factor-1a," <i>J. Biol. Chem.</i> 264:5791-5798, The American Society for Biochemistry and Molecular Biology (1989).
	AT	110	van den Berg, A., et al., "Serial analysis of gene expression: rapid RT-PCR analysis of unknown SAGE tags," <i>Nucl. Acid Res.</i> 27(e17):i-iii, Oxford University Press (1999).

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INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
0942.285000H/RWE/BJD/JKMAPPLICATION
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1636Page 39 of 40
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>111</u>	Vetter, D., et al., "Site-specific recombination of yeast 2- μ m DNA <i>in vitro</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 80: 7284-7288, National Academy of Sciences (1983).
	AS	<u>111</u>	Voss, S.D., et al., "The role of enhancers in the regulation of cell-type-specific transcriptional control," <i>Trends Biochem. Sci.</i> 11:287-289, Elsevier Science (1986).
	AT	<u>111</u>	Voziiyanov, Y., et al., "A general model for site-specific recombination by the integrase family recombinases," <i>Nucl. Acids Res.</i> 27:930-941, Oxford University Press (1999).

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	AR	112	Yoon, H., et al., "SSL1, a suppressor fo a HIS4 5'-UTR stem-loop mutation, is essential for translation initiation and affects UV resistance in yeast," <i>Genes Dev.</i> 6:2463-2477, Cold Spring Harbor Laboratory Press (1992).
	AS		
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